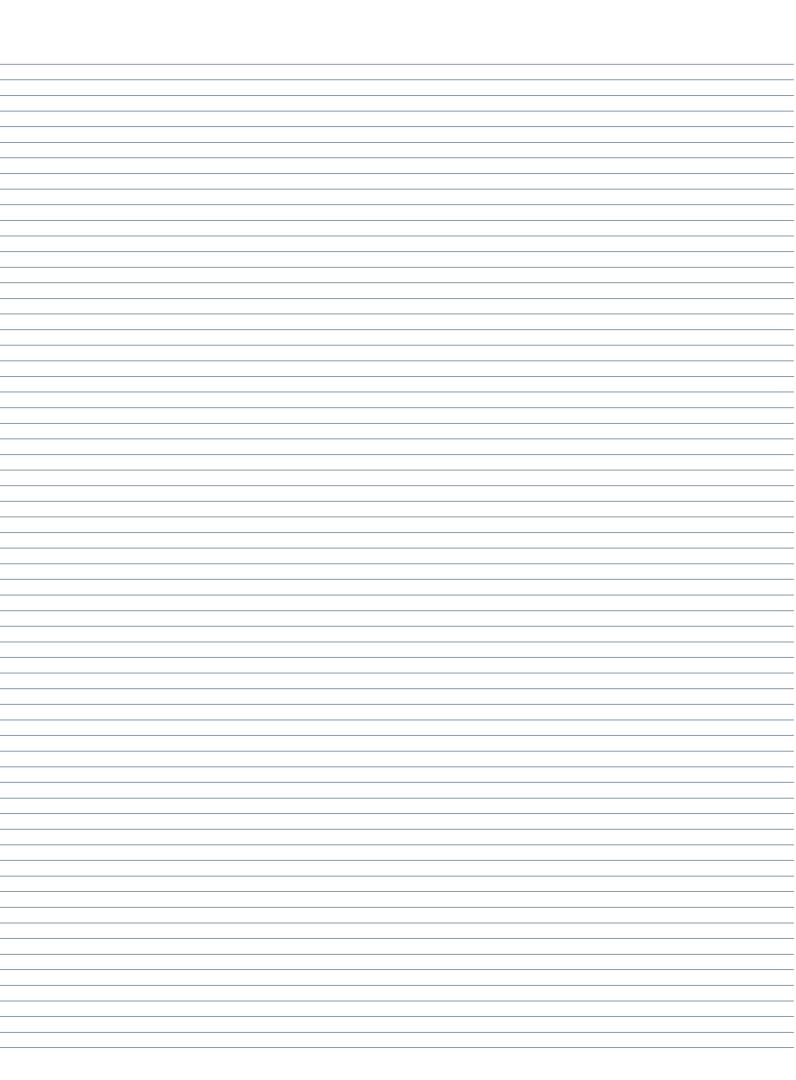
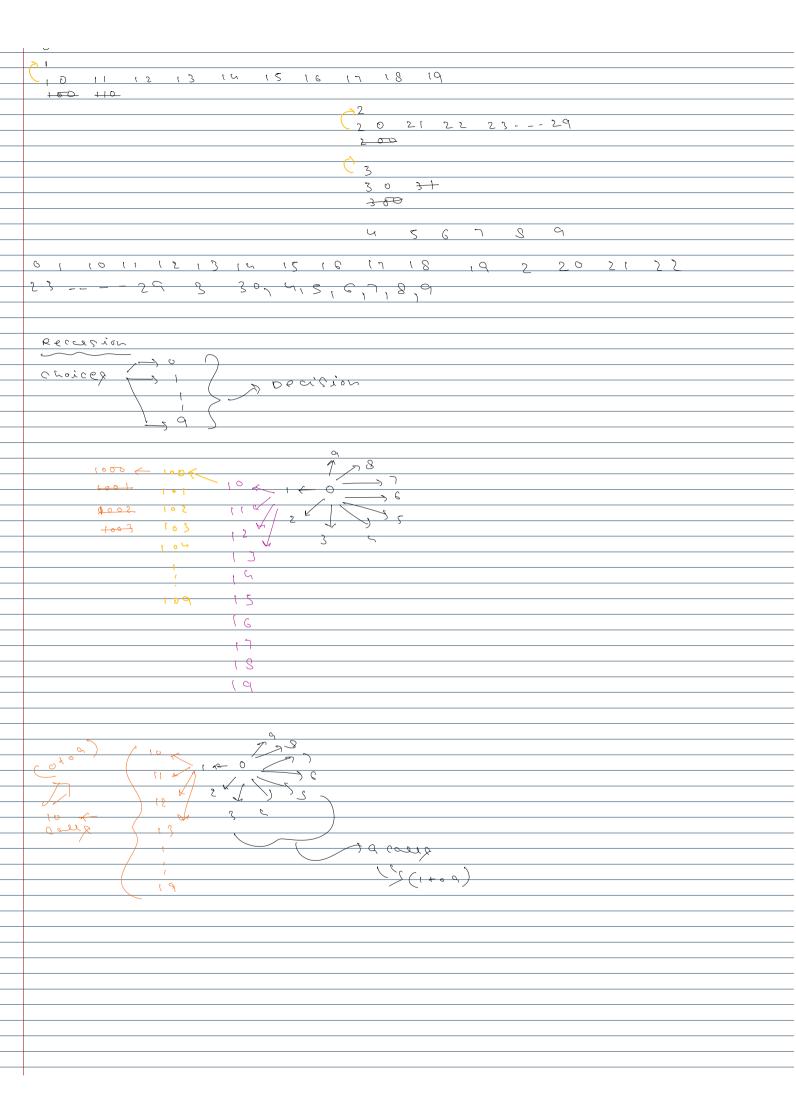
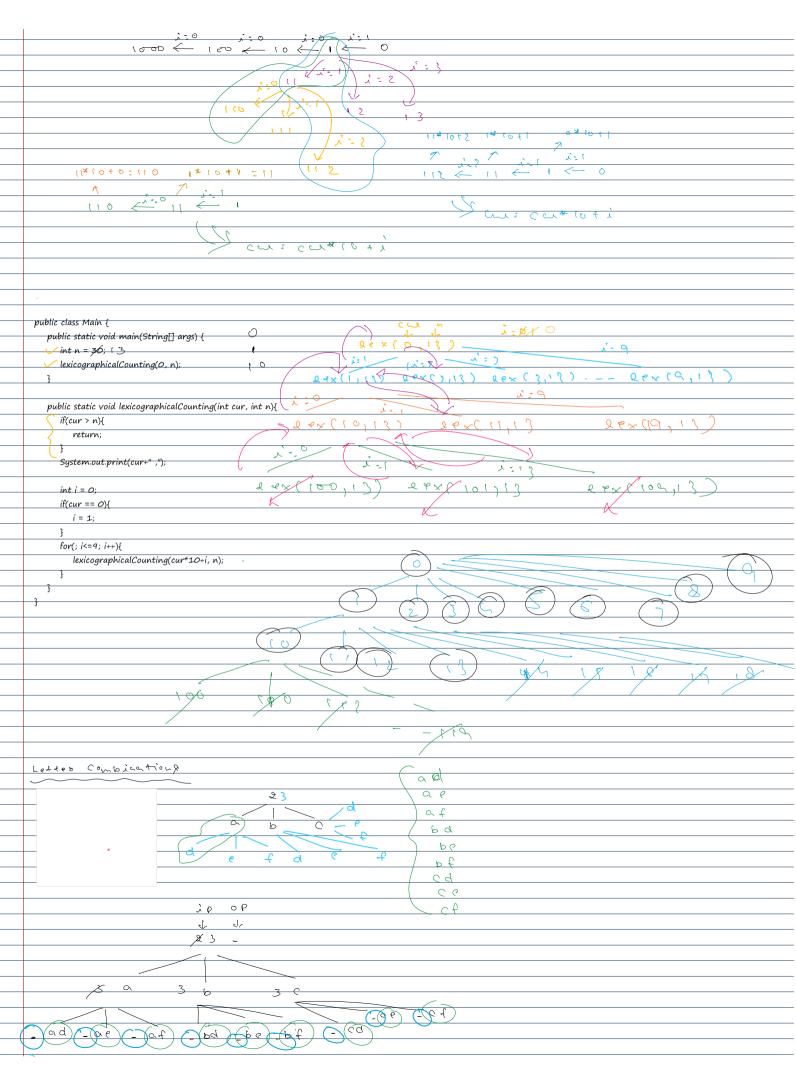
```
Lex ographical Sorting
Lexographical Connting
 Print number ; till 1000 . => for (int i:0) ix = 1000 ; i+4) }
                                 ( (i)9902
 Moictionery order
     alkar sh > alastha
 Print numbers from 0 to 1000 { Lexographical }
                                                            public class Main {
                                                              public static void main(String args[]) {
   5577 =1 Integer
                                 " (T)" > " (F)"
                                                               int i = 0;
                                 (1)5) < (1)5)
                                                               for(;;){
   1,(2)21,< ",(1),, = > 5 fe yords
                                                                 System.out.println(i);
                                                                 break;
    10 < 101 => Integer
                                                                 i++;
    "(10)" < "(10)" => 2 t = 2 c c c
               extra charactes
     asha Lashathosh
                extra character
 Loxographical numbers
 n=13 =>0,1,2,3, ~15,0,7,8,9,10,11,12,13 ×
  n:13
    10 11 12 13 14
                          2 3 4 5 6 7 8 9
     <del>+ 0 0</del>
                                   19
                                          13
                                                  14 15 16 19 18
 D > 1
                                   120
                                           130
                102
                         110
                                   121
  661 <-
                                           131
                 103
                          . . .
                                   122
                          112
    1000
                 109
                                                                 199
                          119
                                           139
 0 &
              2
              200
 200
                                        0 5 5
 201
                                         9001
 20 9
                                           (n < (2)0
 print numbers from 0 to 30
  0
  10 11 12 13 14 15 16 17 18
  120 110
```

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```
class Solution {
   public List<String> letterCombinations(String digits) {
      String ip = digits;
      String op = "";
      List<String> list = new ArrayList<>();
      if(digits == null | digits.length() == 0){
         return list;
      letterCombinationsUtil(ip, op, list);
   static String[] keys = {"", "", "abc", "def", "ghi", "jkl", "mno", "pqrs", "tuv", "wxyz"};
   public static void letterCombinationsUtil(String ip, String op, List<String> list){
      if(ip.length() == 0){
         // System.out.println(op);
         list.add(op);
         return;
      String ch = ip.charAt(0)+"";
      String pressedKey = keys[Integer.valueOf(ch)];
      for(int i=0; i<pressedKey.length(); i++){
        letterCombinationsUtil(ip.substring(1), op + pressedKey.charAt(i), list);
      // letterCombinationsUtil(ip.substring(1), op + pressedKey.charAt(0));
      // letterCombinationsUtil(ip.substring(1), op + pressedKey.charAt(1));
      // letterCombinationsUtil(ip.substring(1), op + pressedKey.charAt(2));
}
```

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